

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-38 (Cancelled)

39. (Currently amended) A method for integrated synthesis and analyte determination on a support, comprising the steps of:

- (a) providing a support ~~body~~;
- (b) passing a liquid with, present therein, receptors or building blocks for synthesizing polymeric receptors over ~~a~~ the support,
- (c) site- or/and time-specifically immobilizing the receptors or building blocks in each case ~~on~~ by photoactivating predetermined positions on the support, the synthesis and analyte determination being carried out in an integrated apparatus, with the synthesis or/and the analyte determination process being monitored and controlled in ~~any number of~~ positions on the support-
- (d) where appropriate, repeating steps (b) and (c) until the required receptors have been synthesized in each case on the predetermined positions on the support,
- (e) bringing the support into contact with a sample containing analytes and
- (f) determining the analytes via their binding to the receptors immobilized on the said support,

wherein ~~an~~ said integrated apparatus ~~comprising~~ comprises a programmable light source matrix, a detector matrix, ~~a~~ said support which is arranged between said light source matrix and said detector matrix, and means for supplying fluids into the said support and for discharging fluids from ~~the~~ said support ~~is used~~.